IFOY AWARD
international intralogistics and forklift truck of the year

**IFOY Innovation Check: STILL, Danfoss Project**
**Category: Integrated Warehouse Solution**

**Market relevance**
The Danfoss project is an impressive example of how automated warehouses will be controlled, monitored and analyzed in the future. The relevance of such systems will continue to increase due to increasing digitalization and automation. With this system, scientific research approaches were transferred into practice and applied. This together with the successful function represents a very high market relevance for the future.

**Costumer benefit**
The presented system has significantly contributed to the successful capacity expansion, which is primarily due to the size and performance of the automated warehouse. The presented tool "iGo insights" is seen as the further outstanding customer benefit. This cloud-based storage of real operation data provides useful analysis tools. In addition to technical problems with individual industrial trucks, these can also identify optimization potential for the overall system and, for example, bottlenecks. This enables the user to operate the system safely and efficiently.

**Novelty**
The implemented overall system contains known logistic components which in their interaction, i.e. communication via interfaces for safety, function and optimization using deep learning methods, represent a very innovative example. With increasing variety of the assortment, which such warehouses have to provide, the challenges and gaps for optimization increase at the same time. The STILL system is ideally suited for this task. Approaches developed in research have been put into practice here.

**Functionality / Implementation**
The iGo insights system presents itself in a clear user interface with numerous functions, which represent the system behavior in various forms based on the stored operation data. The functionality of the real automatic warehouse appears exemplary based on the presented descriptions of the customer Danfoss Power Electronics A/S.

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|---|---|
| Market relevance | ++ |
| Coustumer benefit | ++ |
| Novelty | + |
| Functionality / Implementation | ++ |
| **++** very good / **+** good / **Ø** balanced / **-** less / **- -** not available | |